8. Use of Pulse Code Modulation.

9. Space requirements are less than electromechanical exchanges.

10. Level of maintenance staff is high although maintenance effort required is less than electromechanical trunk automatic exchange.

Improving trunk dialling system in Tamil Nadu

2049. SHRI T. R. BALU: Will the Minister of COMMUNICATIONS be pleased to state:

(a) what major developmental steps are being taken by Government to improve the trunk dialling system between major cities in Tamil Nadu in the near future; and

(b) what are the details of each scheme alongwith cost and approximate year of commissioning?

THE MINISTER OF STATE IN THE MINISTRY OF COMMUNICATIONS (SHRI GIRIDHAR GOMANGO): (a) In order to improve the trunk dialling system between major cities in Tamil Nadu State it is proposed to take the following major steps:

(i) Commissioning electronic trunk automatic exchanges.

(ii) Phase out electromechanical trunk automatic exchanges

(iii) Provide reliable transmission medium to interconnect major cities.

(iv) Commission electronic local exchanges.

(b) Broad details of the schemes are given in Annexure. The total cost of these schemes will be the order of Rs. 75 Crores These schemes are expected to be commissioned progressively by 1995.

Statement

Annexure

Part (b) *Details of Development schemes in Tamilnadu*

(i) *Electronic trunk automatic exchanges to be commissioned:*

Station	Capacity	Year
Madras	5000 lines	89-90
Coimbatore	500 lines	90-91
	+ 1000 lines	90-91
Madurai	500 lines	91-92
	+ 1000 lines	91-92
Tirunelveli	500 lines	91-92
Trichy	2000 lines	Working
Salem	1000 lines	90-91

(ii) *Electromechanical trunk automatic equipment to be phased out:*

Station	Capacity	Year
Madras OGTT	2000	89-90
Madras ICTT	2000	89-90
Salem PC TAX	1000	90-91
Coimbatore PC TAX	2000	90-91
Madurai PC TAX	2200	91-92

(iii) *Provide reliable transmission media:*

Optical Fibre cable link (140 Mbps)	
Madras-Trichy	8th Plan
Trichy-Madurai	8th Plan
Coaxial Cable link (12 MHz)	
Madurai-Trivandrum	8th Plan
Rajapalayam-Sankarankovil	8th Plan
Digital UHF links (120 chl) 5 routes	8th Plan
Digital UHF links (30 chl) 5 routes	8th Plan

(iv) *Provide electronic local exchanges:*

(a) 36000 lines of E-10B type digital local exchange at Coimbatore,

Madurai, Trichy, Erode, Tirupur and Salem to be commissioned by 1993.

(b) Medium capacity electronic exchanges at 4 towns to be commissioned by 1993.

(c) Small capacity electronic exchanges at 59 towns to be commissioned by 1993.

Production of Oil and Gas at the Cauvery Basin

2050. SHRI T.R. BALU: Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

(a) what is the number of oil wells dug so far at Cauvery Basin and also amount spent by ONGC for developing Cauvery Basin to date;

(b) what is the depth of each well and oil and gas produced by each well since its commissioning;

(c) what is the type of crude oil and gas available from each well;

(d) how many more exploratory wells are being presently dug at Cauvery Basin alongwith the depth of each well; and

(e) whether Tamil Nadu Govt. has approached the Central Government to set up an oil refinery at Thanjavur; if so, what are the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI BRAHM DUTT): (a) to (c) ONGC have so far drilled 55 wells onland and 28 offshore in Cauvery basin. Out of these, hydrocarbons have been discovered in 20 wells onland and 8 in offshore. Currently oil/gas is being produced from wells in Narimanam, Bhuvanagiri and Kovilkalappal through Early Production System The time and labour involved in collection of information about depth of each well, type of hydrocarbons available will not be commensurate with the purpose sought to be achieved.

An expenditure of Rs. 175.49 crores (excluding depreciation) has been incurred by ONGC on exploratory/development drilling — both onland and offshore in Cauvery basin upto 31st March, 1988.

(d) Seven wells are presently under drilling. The details of these are as under:—

Well No.	Depth (M) *(As on 28.2.89)*
ONLAND	
1 Adiyakkamanglam	17
2. Narimanam-13	856
3 Narimanam-14	510
4. Tirukalar-3	800
5. Bhuvanagiri-1	3745
OFFSHORE	
6. PY-3-9	2129
7. PY-3-6	2985

Besides, in the onland part of the Cauvery basin two wells Narimanam-10 (depth 2370 M) and Komarakshri (depth 5151 M) are under production testing and rig-building/rig dismantling in progress at two wells viz., Narimanam-12 and Sattapadi-1.

(e) Government have asked Madras Refinery Limited to prepare a detailed Feasibility Report for setting up necessary primary facilities for processing the crude produced in the Cauvery Basin. Preliminary estimate of the project cost is Rs. 94 crores. The capacity is to absorb 0.5 Million tonnes of crude oil.

Fire in pong dam power house complex

2051. SHRI VIRENDRA VERMA:
SHRI MOHINDER SINGH LATHER:

Will the Minister of ENERGY be pleased to state:

(a) whether it is a fact that recently a major fire broke out at the Pong Dam Power House Complex,